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TI Manufacture of composition for preparing cellular fly
ash-concrete for walls and heat-insulating structures
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PA Russia
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CC 58-2 (Cement, Concrete, and Related Building Materials)
FAN.CNT 1

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AB The compn. comprises cement 25.6-32.8, fly ash
from thermoelec. plant 32.7-41, sodium sulfate 0.51-0.66, foaming agent
(e.g., aluminum powder) 0.1-0.26, and tempering water in the
balance. Sodium sulfate is used as alkali additive and hardening agent.
The manuf. comprises (a) prepg. a viscous raw mix of components, (b)
pre-activating fly ash, (c) swelling raw mix, (d)
hardening during evapn. or under normal conditions, and (e) activating
fly ash by combined grinding of all dry mix components
for 20-40 min. Prior to grinding, dry superplasticizer S-3 in amt. of
0.7-1% of cement wt. is added into the mix, and sulfanol
surfactant is added into tempering water in amt. of 0.2-0.5% of
water. The method improves properties of the compn.
ST cellular concrete cement fly ash thermal
insulator wall